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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/785,510	02/17/2004	Arthur Tauber	CECOM 5522	8327	
7:	7590 01/31/2006			EXAMINER	
U.S. Army Communications-Electronics Command ATTN: AMSEL-LG-L (George B. Tereschuk, Esq.) Fort Monmouth, NJ 07703-5010			MILLER, D	MILLER, DANIEL H	
			ART UNIT	PAPER NUMBER	
·			1775	1775	

DATE MAILED: 01/31/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Summary	10/785,510	TAUBER ET AL.				
Office Action Summary	Examiner	Art Unit				
71 444 100 0475 (41)	Daniel Miller	1775				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DATE of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  If NO period for reply is specified above, the maximum statutory period was realized to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from 1. cause the application to become ABANDONE	l. vely filed the mailing date of this communication. O (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 5/31/	<u>2005</u> .					
2a) This action is <b>FINAL</b> . 2b) ⊠ This	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
<ul> <li>4)  Claim(s) 1-80 is/are pending in the application.</li> <li>4a) Of the above claim(s) 1-47 and 49-79 is/are</li> <li>5)  Claim(s) is/are allowed.</li> <li>6)  Claim(s) 48 and 80 is/are rejected.</li> </ul>						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the Replacement drawing sheet(s) including the correct and the correct of the contract	epted or b) objected to by the Eddrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of: <ol> <li>Certified copies of the priority documents have been received.</li> <li>Certified copies of the priority documents have been received in Application No</li> <li>Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> </ol> </li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
Attachment(s)						
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)</li> <li>Paper No(s)/Mail Date</li> </ol>	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:					

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#### **DETAILED ACTION**

## Claim Objections

1. Claims 1-47 and 49-79 are objected to because of the following informalities: No restriction was made and the claims should be cancelled if applicant does not want them considered. Appropriate correction is required.

## Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 48 and 80 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fresenko et al in view of Gallagher et al (U.S. 4,962,086).
- 3. Gallagher teaches a copper oxide layer disposed on a single crystal substrate (column 10 line 25-30). The substrate having a low dielectric constant and losses (column 4 line 27-34) and is favorable for use with high Tc superconductors (column 3 line 35-40). However the reference is silent as to the use of a substrate with the formula Sr2LuSbO6.
- 4. Fresenko teaches a cubic oxide substrate that has the formula Sr2LuSbO6 (table 1) and perospite with Sb+5 ions occupying part of the octahedral position (page 5). The substrate is shown to be stable at high temperatures (requiring two firings to get its

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cubic structure and high phase change temperature) (page 4). Since the substrate taught is the same as the claimed structure the structure would be expected to possess the same intrinsic properties as those claimed by applicant.

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5. Therefore it would have been obvious at the time of the invention to modify Gallagher by substituting the substrate of Fresenko because both are meant for high temperature superconductor applications and Fresco is taught to be an effective substrate at high temperatures.

### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Daniel Miller whose telephone number is (571) 272-1534. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Deborah Jones can be reached on (571) 272-1535. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Daniel Miller

JENNIFER MCNEIL PRIMARY EXAMINER

1/23/06